

ABSTRACT OF THE INVENTION

[0036] The invention relates to an electric heating system for a motor vehicle in which a PTC heating element (4) is controlled by a regulator (1) by means of an infinitely variable electronic power system (2). The regulator (1) receives a status signal (u) that indicates the power available from the dynamo (6). The control signal (x) for the electronic power system (2) is preferably calculated from the latter by means of a PI algorithm in such a way that the dynamo/alternator (6) is utilized to a maximum degree without putting at risk a sufficient supply to other electrical loads (5). The regulator (1) can also be connected to a user interface (3) for displaying and/or inputting information.